BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains from 1st, 2nd and 3rd Cross Jai Hanuman Layout and Budha Jyothi Layout in Ward No. 09, Vidyaranyapura.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Est Cost Rs.		4000000.00
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum	2	300					
	Jai Hanuman layout 1st Cross		2	250.00	0.45	0.35	78.75		
	2nd Cross L Shape		2	50.00	0.45	0.35	15.75		
	Culverts		4	6.00	1.50	1.00	36.00		
	Basic Rate	82.00					**130.50**	199.36	**26017.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm	2	300					
	Jai Hanuman layout 1st Cross		2	250.00		1.35	675.00		
	2nd Cross L Shape		2	50.00		1.35	135.00		
	Basic Rate	76.00					**810.00**	80.56	**65254.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
			Vide Item No. 2				202.50		
	Basic Rate	628.00					**202.50**	665.68	**134800.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
	Jai Hanuman layout 1st Cross		4	250.00		0.40	400.00		
	2nd Cross L Shape		4	50.00		0.40	80.00		
	Basic Rate	831.00					**480.00**	880.86	**422813.00**
	Area Weightage @ 6%	49.86							
	Total	**880.86**							
5	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Jai Hanuman layout 1st Cross		4	250.00	0.20	0.20	40.00		
	2nd Cross L Shape		4	50.00	0.20	0.20	8.00		
	Basic Rate	5441.00					**48.00**	5767.46	**276838.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Jai Hanuman layout 1st Cross		834	0.90	0.60		450.36		
	2nd Cross L Shape		167	0.90	0.60		90.18		
							540.54	1820.56	**984086.00**
	Covering on Existing		500						
7	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Culverts		4	6.00	1.50	0.15	5.40		
	Basic Rate	4867.00					**5.40**	5159.02	**27859.00**

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
8	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Culvert		4x4	6.00		0.90	86.40		
	Basic Rate	293.00					**86.40**	310.58	**26834.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
9	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	For Culvert Bottom		4	6.00	1.50	0.15	5.40		
	Side Wall		4x2	6.00	0.30	0.90	12.96		
	Basic Rate	5879.00					**18.36**	6231.74	**114415.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
0	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
			18.36	0.090 T/cum			**1.65**	64243.42	**106156.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
1	Providing **precast slab of 250 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Culvert Deck Slab		40	1.50	0.60		36.00		

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							36.00	5125.00	**184500.00**
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Kerb Stone		2	250.00			13		
				40.00					
			2	50.00			222		
				0.45					
	Basic Rate	313.00					**235**	331.78	**77876.00**
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
13	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	250.00		0.45	225.00		
			2	50.00		0.45	45.00		
	Basic Rate	26.00					**270.00**	27.56	**7441.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
4	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 13				270.00		
	Basic Rate	66.00					**270.00**	69.96	**18889.00**
	Area Weightage @ 6%	3.96							
	Total	**69.96**							
	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Jai Hanuman layout 1st Cross		1	250.00	5.00		1250.00		
	2nd Cross L Shape		1	50.00	4.50		225.00		
							1475.00	26.50	**39088.00**
	Basic Rate	25.00							
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
16	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Jai Hanuman layout 1st Cross		1	250.00	5.00	0.23	287.50		
	2nd Cross L Shape		1	50.00	4.50	0.23	51.75		
	Basic Rate	1668.00					**339.25**	1768.08	**599821.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
17	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Jai Hanuman layout 1st Cross		1	250.00	5.00		1250.00		
	2nd Cross L Shape		1	50.00	4.50		225.00		
	Basic Rate	26.00					**1475.00**	27.56	**40651.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
3	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	Jai Hanuman layout 1st Cross		1	250.00	5.00	0.040	50.00		
	2nd Cross L Shape		1	50.00	4.50	0.040	9.00		
	Basic Rate	6683.00					**59.00**	7083.98	**417955.00**
	Area Weightage @ 6%	400.98							
	Total	**7083.98**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Sub Total								3571293.00
	Tender Premium @ 10%								357129.00
	Third Party Inspection Charges @ 1%								35713.00
	Labour Cess Charges @ 1%								35713.00
	Add for unforseen and rounding off	L/S							152.00
								Total	4000000.00
	Rupees Forty Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3167 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

22/11
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
22/11

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty lakhs only
Head of A/c. P-3167
Div. Ref. No. 34/17-18 Date. 22/11/17
AE
EE(BTP) 22/11

Technical Sanction
Accorded For Rs. Forty lakhs (Forty lakhs)
Head of A/C P3167
CER NO :TS/370A/17-18 Dt. 28.11.2017
TA
CE (YNK)

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at V P Layout in Ward No. 09, Vidyaranyapura.

Sl No	Description of item	Unit	No	L	B	D	Est Cost Rs. Qty	Rate	1500000.00 Amount
	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	CC Drain		2	64.00	0.90	0.90	103.68		
	CC Road		1	64.00	5.00	0.15	48.00		
	Basic Rate	82.00					**151.68**	199.36	**30240.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	CC Drain		2	64.00	0.90	0.15	17.28		
	CC Road		1	64.00	5.00	0.15	48.00		
	Basic Rate	4867.00					**65.28**	5159.02	**336781.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	CC Drain		2	64.00	0.90	0.15	17.28		
			4	64.00	0.15	0.60	23.04		
							40.32	6231.74	**251264.00**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							

Scanned by CamScanner

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**6231.74**							
	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
			0.06	40.32			**2.42**	64243.42	**155418.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
5	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Cross Road 4		4	64.00		0.30	76.80		
	CC Drain		2x4	64.00		0.60	307.20		
	Basic Rate	293.00					**384.00**	310.58	**119263.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data	Sqm							
			198	0.90	0.60		106.92		
							106.92	1820.56	**194654.00**
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - **M20**	Cum							

Scanned by CamScanner

			1	64.00	5.00	0.125	40.00		
	Basic Rate	5197.00					**40.00**	5508.82	**220353.00**
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							
8	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
	Main Road		1	64.00	5.00		320.00		
	Basic Rate	90.00					**320.00**	95.40	**30528.00**
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
	Sub Total								**1338501.00**
	Tender Premium @ 10%								**133850.00**
	Third Party Inspection Charges @ 1%								**13385.00**
	Labour Cess Charges @ 1%								**13385.00**
	Add for unforseen and rounding off	L/S							**879.00**
								Total	**1500000.00**

Rupees Fifteen Lakh(s) Only

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3167 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 22/11
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
22/11

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifteen lakhs only

Head of A/c. P-3167

Div. Ref. No. 33/17-18 Date. 22/11/17

AE 22/11 EE(BTP) 22/11

TECHNICAL SANCTION

Accorded For Rs. Fifteen lakhs only

Head of A/c. P-3167

Div. Ref. No. 38/17-18 Date. 22/11/17

AE 22/11 EE(BTP) 22/11

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads and Drains from Sampige Road to Mramma Temple in Ward No. 09, Vidyaranyapura.**

							Est Cost Rs.		**2300000.00**	
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Vijaya Store Road		2	80.00	0.45	0.30	21.60		
	Maramma Temple Road		2	45.00	0.45	0.30	12.15		
	Culverts		5	6.00	1.50	1.20	54.00		
	Basic Rate	82.00					**87.75**	199.36	**17494.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
	Vijaya Store Road		2	80.00		1.35	216.00		
	Maramma Temple Road		2	45.00		1.35	121.50		
	Basic Rate	76.00					**337.50**	80.56	**27189.00**
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
			Vide Item No. 2				84.38		
	Basic Rate	628.00					**84.38**	665.68	**56167.00**
	Area Weightage @ 6%	37.68							
	Total	**665.68**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
	Vijaya Store Road		4	80.00		0.40	128.00		
	Maramma Temple Road		4	45.00		0.40	72.00		
	Basic Rate	831.00					**200.00**	880.86	**176172.00**
	Area Weightage @ 6%	49.86							
	Total	**880.86**							
5	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Vijaya Store Road		4	80.00	0.20	0.20	12.80		
	Maramma Temple Road		4	45.00	0.20	0.20	7.20		
	Basic Rate	5441.00					**20.00**	5767.46	**115349.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Jai Hanuman layout 1st Cross		266	0.90	0.60		143.64		
	2nd Cross L Shape		150	0.90	0.60		81.00		
							224.64	1820.56	**408971.00**
	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	For Culverts		5	6.00	1.50	0.15	6.75		
	Basic Rate	4867.00					**6.75**	5159.02	**34823.00**

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
8	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Culvert		5x4	6.00		0.90	108.00		
	Basic Rate	293.00					**108.00**	310.58	**33543.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
9	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							
	For Culvert Bottom		5	6.00	1.50	0.15	6.75		
	Side Wall		5x2	6.00	0.30	0.90	16.20		
	Basic Rate	5879.00					**22.95**	6231.74	**143018.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				22.95	0.090 T/cum		**2.07**	64243.42	**132695.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
	Providing **precast slab of 250 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	Culvert Deck Slab		50	1.50	0.60		45.00		
							45.00	5125.00	**230625.00**

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 25 / Item No. 5.30 PWD SR 2016-17**	No							
	Kerb Stone		2	80.00			356		
				0.45					
			2	45.00			200		
				0.45					
	Basic Rate	313.00					**556**	338.04	**187800.00**
	Area Weightage @8%	25.04							
	Total	**338.04**							
13	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	80.00		0.45	72.00		
			2	45.00		0.45	40.50		
	Basic Rate	26.00					**112.50**	27.56	**3101.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
4	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 13				112.50		
	Basic Rate	66.00					**112.50**	69.96	**7871.00**
	Area Weightage @ 6 %	3.96							
	Total	**69.96**							
	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	Vijaya Store Road		1	80.00	4.00		320.00		
	Maramma Temple Road		1	45.00	4.50		202.50		
	Basic Rate	25.00					**522.50**	26.50	**13846.00**

Scanned by CamScanner

No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
6	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	Vijaya Store Road		1	80.00	5.00	0.23	92.00		
	Maramma Temple Road		1	45.00	5.50	0.23	56.93		
	Basic Rate	1668.00					**148.93**	1768.08	**263311.00**
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
7	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	Vijaya Store Road		1	80.00	5.00		400.00		
	Maramma Temple Road		1	45.00	5.50		247.50		
	Basic Rate	26.00					**647.50**	27.56	**17845.00**
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification Clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	Vijaya Store Road		1	80.00	5.00	0.040	16.00		
	Maramma Temple Road		1	45.00	5.50	0.040	9.90		
	Basic Rate	6683.00					**25.90**	7083.98	**183475.00**
	Area Weightage @ 6%	400.98							
	Total	**7083.98**							

Scanned by CamScanner

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Sub Total								
	Tender Premium @ 10%								2053295.00
	Third Party Inspection Charges @ 1%								205330.00
	Labour Cess Charges @ 1%								20533.00
	Add for unforseen and rounding off	L/S							20533.00
									309.00
	Rupees Twenty Three Lakh(s) Only							Total	2300000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 P-3167 Special Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 22/11
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
22/11

ADMINISTRATIVE APPROVAL
Accorded For Rs. Twenty three lakhs only
Head of A/c. P-3167
Div. Ref. No. 36/17-18 Date 22/11/17
22/11
AE
EE(BTP) 22/11

Technical Sanction
Accorded For Rs. 23-00 lakhs [illegible]
Head of A/C. P-3167
CER NO : TS/371A/12518 Dt. 28.11.201
TA CE (YNK)

Scanned by CamScanner